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History, will be unveiled. At 8 o'clock there will be a reception by the trustees of the museum and the New York Academy of Sciences with an exhibition of scientific progress by the academy, including demonstrations and short addresses. At 10 o'clock there will be an informal smoker at the Chemists' Club.

4. The meetings will continue on Monday and Tuesday, or so long as is required by the programs, and probably several of the special societies will meet on those days. The meeting of the nominating committee will be on Monday evening.

5. The Hotel Belmont, on 42d street, opposite the Grand Central Station, will be the general headquarters. Adjoining this hotel are the Murray Hill Hotel and the Grand Union Hotel, at which the rates are lower.

SCIENTIFIC NOTES AND NEWS.

A SCIENTIFIC session of the National Academy of Sciences will be held at the Harvard Medical School, Boston, beginning on Tuesday, November 20, at 11 A.M.

THE winter meeting of Section C of the American Association for the Advancement of Science will be held in conjunction with the American Chemical Society at Columbia University, New York, December 27, 1906, to January 2, 1907. The following persons have been appointed to preside over the sections and to aid in the preparations for the meeting:

Physical Chemistry, Alexander Smith.

Inorganic Chemistry, E. H. Miller.

Organic Chemistry, A. S. Wheeler.

Agricultural and Sanitary Chemistry, L. L. Van Slyke.

Biological Chemistry, P. A. Levene.

Industrial Chemistry, A. D. Little.

Members desiring to present papers are requested to send titles and brief abstracts to one of these persons or to the secretary of the section, Professor Charles L. Parsons, New Hampshire College, Durham, N. H. To make sure of consideration, such titles should be received before November 24.

THE American Physiological Society will hold its nineteenth annual meeting during convocation week in New York City, on

Thursday, Friday and Saturday, December 27, 28 and 29, 1906. The session on the morning of December 29 will be a joint meeting with Section K—Physiology and Experimental Medicine—of the American Association for the Advancement of Science, at the Rockefeller Institute for Medical Research.

THE annual meetings of the American Anthropological Association and of the American Folk-lore Society will be held in New York City, beginning on December 27, in affiliation with Section H of the American Association for the Advancement of Science.

SIR WILLIAM PERKIN has received the degree of doctor of laws from the Johns Hopkins University, and the degree of doctor of science from Columbia University. He has been entertained by the University of Pennsylvania and other institutions that he has visited.

IN addition to those engineers who were announced in *SCIENCE* as having been granted the degree of D.Sc. on the occasion of the dedication of the new engineering building of the University of Pennsylvania, the degree was conferred on Professor W. P. Blake. In presenting Professor Blake for the degree, Mr. Arthur L. Chase said: "We ask you to confer the degree on William Phipps Blake, because of his knowledge and experience in mining engineering, geology and mineralogy. The results of his activities have been useful to the governments of the United States, to Japan, to the state of California and to Arizona territory. For many years he has occupied a distinguished position as a teacher, and he has written a great number of illuminating books and papers on the mining of the precious metals and other technical subjects."

CAPTAIN ROALD AMUNDSEN sailed on November 8, on the Scandinavian-American steamer *Hellig Olav*, for Christiania, where the records of his magnetic observations in the Arctic will be worked out. Captain Amundsen has presented his entire collection to the Norwegian government. The new king of Norway has conferred upon him the highest decoration of the kingdom, the grand cross and cordon of St. Olaf.

ON the evening of November 3 the Geographic Society of Chicago tendered a reception and banquet to Captain Roald Amundsen on the occasion of his return from three and one half years of successful exploration in the region of the magnetic north pole. Addresses were made by the guest of honor, and by his first officer, Lieutenant Hansen; by the Norwegian consul, Fredrik Herman Gade; by the president of the society, Professor Henry J. Cox, and by Professors R. D. Salisbury and T. C. Chamberlin, of the University of Chicago.

PROFESSOR ROLAND THAXTER, of Harvard University, has returned from a year's leave of absence, a portion of which was spent in South America, and has brought back considerable collections of various cryptogams, most of which were obtained on the Straits of Magellan.

PROFESSOR WALTHER NERNST, of the University of Berlin, has returned to Germany after delivering the Silliman lectures at Yale University.

DR. SVEN HEDIN, who by order of the government was denied access to Tibet from the side of India, is making good his entry into western Tibet from Chinese Turkestan.

MR. WALTER WELLMAN and Major Hersey have sailed for New York on the French steamer *La Savoie*. The former will return to Paris in six weeks to continue his supervision of the changes in his airship. Major Hersey will accompany the Chicago *Record-Herald* expedition in its attempt to reach the Pole next summer.

RICHARD M. SHAW, a student in the medical department of the University of Pennsylvania, has joined an expedition organized by Dr. W. G. Miller, of Philadelphia, for the purpose of making explorations in Alabama and Florida. About two months will be spent in Alabama, during which a number of Indian burial mounds will be excavated, and four months will be spent in making similar investigations in Florida.

DR. HENRY S. PRITCHETT, of the Carnegie Foundation, will be the principal speaker at

the thirty-fifth anniversary exercises at the Johns Hopkins University on February 22.

MR. H. YULE OLDHAM, reader in geography at Cambridge University, is giving a course of public lectures this term on 'The History of Geographical Discovery,' dealing principally with the discovery of America.

AT the annual general meeting of the British Astronomical Association Mr. F. W. Lavender was elected president to succeed Mr. A. C. D. Crommelin. Other officers were elected as follows: A. C. D. Crommelin, E. W. Maunder, S. A. Saunder and W. H. Wesley as vice-presidents, Mr. W. H. Maw as treasurer and Messrs. J. G. Petrie and J. A. Hardcastle as secretaries.

DR. R. HERTWIG, professor of zoology and comparative anatomy at Munich, has celebrated the twenty-fifth anniversary of his professorship.

DR. FRANZ MERTENS, professor of mathematics at Vienna, has received a prize of the value of 5,000 Marks, given every third year by the Berlin Academy of Sciences for the most important mathematical work.

DR. VON ELSNER has been appointed associate in the Meteorological Observatory at Berlin.

MR. N. R. GRAHAM, of the chemical department of the College of the City of New York, has secured a patent on a typewriter attachment which facilitates the writing of chemical formulas.

The government of India has granted Mr. A. R. Brown, Anthony Wilkin student in ethnology and archeology at Cambridge University, a sum of £300 to assist him in carrying on his researches amongst the natives of the Andaman and Nicobar Islands.

As the result of correspondence between Mr. Cornelius Vanderbilt, president of the Robert Fulton Monument Association, and the four surviving direct descendants of the inventor of the steamboat, these descendants have consented to the removal of the remains of Fulton from Trinity churchyard to the tomb and monument that the association is planning to erect.

DR. EDMUND HOWD MILLER, professor of analytical chemistry at Columbia University, died on November 8, at the age of thirty-eight years. Dr. Miller received his bachelor's, master's and doctor's degrees from Columbia University, and was promoted to be assistant, tutor, instructor, adjunct professor and professor at that institution. He was a fellow of the American Association for the Advancement of Science and has been chairman of the New York Section of the American Chemical Society. He had carried out researches on fire-assay methods, including assays of tin, platinum, etc.

THE death is announced of Dr. Ernst Caesaro, professor of mathematics at Naples.

CIVIL service examinations are announced as follows: On November 30, for the position of laboratory assistant qualified in practical optics in the Bureau of Standards at a salary of \$1,000; on December 5, for the position of aid in the Coast and Geodetic Survey, at a salary of \$720; for the position of preparator of fossils in the Geological Survey, at \$75 a month; for the position of psychologist in the Government Asylum for the Insane, at a salary of \$1,500, and for the position of arboriculturist in the Bureau of Plant Industry, at a salary of \$2,000.

THE University of California has received by donation the herbarium and botanical library of Mr. and Mrs. T. S. Brandegee, of San Diego. The herbarium is one of the most important in the west, since it contains something over 100,000 sheets of carefully selected plants, mostly representative of the Mexican flora, which for many years has been Mr. Brandegee's chosen field, and of the flora of California and neighboring states, which has received careful treatment at the hands of Mrs. Brandegee. It contains the sole remaining duplicate types of many species, the originals of which were lost in the recent fire that destroyed so large a portion of the California Academy of Sciences herbarium, as well as the types of practically all the new species described by Mr. and Mrs. Brandegee themselves. Among the noteworthy sets represented are Bebb's Willows, Parry's Man-

zanitas and Chorizanthes, a majority of the Mexican sets distributed by Palmer, Pringle, Lumholtz, Purpus, etc., and a selection of types and duplicate types from the Orcutt and Cleveland herbaria. It is probable that no other herbarium contains so nearly complete a representation of the North American Boraginaceæ. It is also rich in *Mimulus*, *Eriogonum* and other groups in which Mrs. Brandegee has been particularly interested. The university herbarium, as now enlarged, numbers approximately 250,000 sheets, a majority of which are mounted in permanent form. The whole collection is available for study and occupies fire-proof quarters in one of the buildings recently erected on the university campus. Here visiting botanists desiring to study the west American and Mexican flora or to consult the working library of the herbarium, will be welcome and given every opportunity for research work. Mr. and Mrs. Brandegee will continue their studies at the university, where Mr. Brandegee has been appointed honorary curator of the herbarium. Mail matter may hereafter be addressed to them at the university.

THE Academy of Natural Sciences of Philadelphia has recently acquired two notable zoological collections. One of these is the Gulick collection of Hawaiian land shells, which served as the basis of Rev. John T. Gulick's well-known work, 'Evolution: Racial and Habitual.' It contains elaborate series representing the numerous geographic and local races, not a few of which are to-day quite extinct. The other accession is the Tristram collection of birds numbering some 7,000 skins and representing upwards of 3,000 species. This is the second collection made by the late Canon Tristram, the first one having been secured some years ago by the Liverpool Museum. The present collection comprises birds from all parts of the world, but is especially rich in insular forms and in northern South American birds. Several other collections obtained by the academy during the last few years—notably the Sumatran collection, obtained and presented by Mr. A. C. Harrison, Jr., and Dr. H. M. Hiller; the

collection from British East Africa deposited by Mr. Geo. L. Harrison, Jr., and the Porter Philippine collection—have greatly increased the value of the ornithological department of the museum and the Tristram collection brings the total number of specimens up to nearly sixty thousand.

THROUGH the generous gift of Mrs. Russell, the library of the late Professor Israel C. Russell has become the property of the University of Michigan; and by her request it will be kept separate to form the nucleus of a Departmental Library of Geology. The regents of the university in accepting the gift authorized changes in the museum building—at present the home of the geological department—and in a few weeks the books will be arranged upon shelves in a new geological seminary room to be known as the 'Israel C. Russell Room' and prepared as a memorial to this distinguished geologist. The collection which thus comes into the possession of the University of Michigan is especially rich in the separate publications of geologists; and these, like the reports and bound volumes of the collection, are to be entered in the main library catalogue of the university. An appeal will be made to working geologists here and abroad in the hope that they will place upon their exchange lists in place of Professor Russell's name the name 'Russell Library,' continuing the old address, University of Michigan, Ann Arbor, Mich., U. S. A. Contributions to the collection will be acknowledged by the university librarian, promptly entered in the catalogue, and sent to the Russell Room, where they will at once be accessible to all students of geology. A similar request will be made of the directors of geological surveys and of other geological institutions, in order that the very valuable series of their publications may be kept complete. It is thought that means will be found to continue the subscription on behalf of the library to the important geological and geographic journals which were regularly taken by Professor Russell. Printed address slips for mailing or expressing publications will be supplied upon application either to the university libra-

rian or to Professor W. H. Hobbs, in care of the university. If notified in advance, the library will generally be willing to pay the charges upon express packages. A considerable number of separate copies of several of Professor Russell's shorter papers are still available for distribution. If geologists will indicate what papers they already possess, the attempt will be made to supply the deficiencies as far as is possible.

AT a cabinet meeting held in Paris on October 30 a measure was approved providing for the abolition of the death penalty.

THE library of the late Dr. Willard Parker, containing 4,000 volumes, was formally presented to the Medical Society of the County of Kings, October 16. The presentation was made by Dr. Willard Parker, his son, who will be made an honorary member of the society.

THE Central Committee for Scientific Research on the Brain, appointed by the International Association of Academies, has recognized the Senckenberg Neurological Institute, Frankfort on the Main, as an international institute for the purpose.

UNIVERSITY AND EDUCATIONAL NEWS.

By the will of Mr. John Daglish, Armstrong College, Durham, will ultimately receive a bequest of £30,000 and the residue of the estate.

At the University of Nebraska the wing of the new museum building is approaching completion. It is four stories high and is fire-proof throughout. The 'Temple,' intended for the use of the various societies of the university, is well under way. It occupies a quarter of a city block, being nearly 140 feet square, and is to have four stories. It is built of white sandstone and bronze brick.

New buildings for a mining and metallurgical department at the University of Leeds are about to be erected. Plans have been approved and tenders invited; and it is expected that the new buildings will be ready by next session. The capital fund raised for building and endowment purposes as part of the £100,000 required by the Privy Council now amounts to some £75,000.